SEP 2 8 2001

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VERTEX[™] Reconstruction System 510(k) Summary (K003780) July 2001

K003780

I. Company:

Medtronic Sofamor Danek USA, Inc.

1800 Pyramid Place

Memphis, Tennessee 38132

(901) 396-3133

II. Product Name:

VERTEX™ Reconstruction System

Classification Name:

Spinal Interlaminal Fixation Orthosis

III. Description:

The VERTEXTM Reconstruction System is a posterior system, which consists of a variety of shapes and sizes of rods, hooks, screws, multi-axial screws, and connecting components, which can be rigidly locked to the rod in a variety of configurations, with each construct being tailor-made for the individual case. Titanium ATLASTM cable may be used with this system at the surgeon's discretion.

The VERTEXTM Reconstruction System is fabricated from medical grade titanium or titanium alloy described by such standards as ASTM F67 or ASTM F136 or ISO 5832-3 or 5832-2. The VERTEXTM Reconstruction System also includes a retaining ring for the multi-axial screw made of Shape Memory Alloy (Nitinol – NiTi) as described by ASTM F2063. Shape Memory Alloy is compatible with titanium or titanium alloy implants only. Do not use with stainless steel. Medtronic Sofamor Danek expressly warrants that these devices are fabricated from one of the foregoing material specifications. No other warranties, express or implied, are made. Implied warranties of merchantability and fitness for a particular purpose or use are specifically excluded. Never use stainless steel and titanium implant components in the same construct.

To achieve best results, do not use any of the VERTEXTM Reconstruction System implant components with components from any other system or manufacturer unless specifically allowed to do so in this or another Medtronic Sofamor Danek document. As with all orthopaedic and neurosurgical implants, none of the VERTEXTM Reconstruction System components should ever be reused under any circumstances.

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IV Indications

When intended to promote fusion of the cervical spine and the thoracic spine, (C1-T3), the VERTEXTM Reconstruction System is indicated for the following:

DDD (neck pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, spinal stenosis, fracture, dislocation, failed previous fusion and/or tumors.

Hooks and Rods

The hooks and rods are also intended to provide stabilization to promote fusion following reduction of fracture/dislocation or trauma in the cervical/upper thoracic (C1-T3) spine.

Multi-axial Screws/Lateral Connectors

The use of multi-axial screws (3.5mm and 4.0mm cancellous, and 4.0mm cortical) is limited to placement in T1-T3 in treating thoracic conditions only. The multi-axial screws are not intended to be placed in the cervical spine.

Titanium ATLASTM Cable System to be used with the VERTEXTM Reconstruction System allows for cable attachment to the posterior cervical or thoracic spine.

V. Substantial Equivalence:

The VERTEXTM Reconstruction System was claimed to be substantially equivalent to other commercially marketed systems.

Mechanical test data was provided in support of this notification.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

SEP 2 8 2001

Richard W. Treharne, Ph.D. Senior Vice President, Regulatory Affairs Medtronic Sofamor Danek 1800 Pyramid Place Memphis, Tennessee 38132

Re: K003780

Trade/Device Name: VERTEX™ Reconstruction System

Regulation Number: 888.3050

Regulation Name: Spinal Interlaminal Fixation Orthosis

Regulatory Class: Class II Product Code: KWP

Dated: June 10, 2001 Received: July 12, 2001

Dear Dr. Treharne:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 21 CFR Part 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4639. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative and Neurological Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

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510(k) Number (if known): <u>K00378</u>	30	· · · · · · · · · · · · · · · · · · ·
Device Name: VERTEX™ Re	construction Sy	stem
Indications for Use		
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(PLEASE DO NOT WRITE BELOW THI	S LINE - CONT	TINUE ON ANOTHER PAGE IF NEEDED)
Concurrence of CDR	- NH, Office of De	vice Evaluation (ODE)
Prescription Use	OR	Over-The-Counter Use
(Per 21 CFR 801.109)		(Optional Format
1-2-96)		
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510(k) Number_